

FED. SUPPLY CLASS

5305

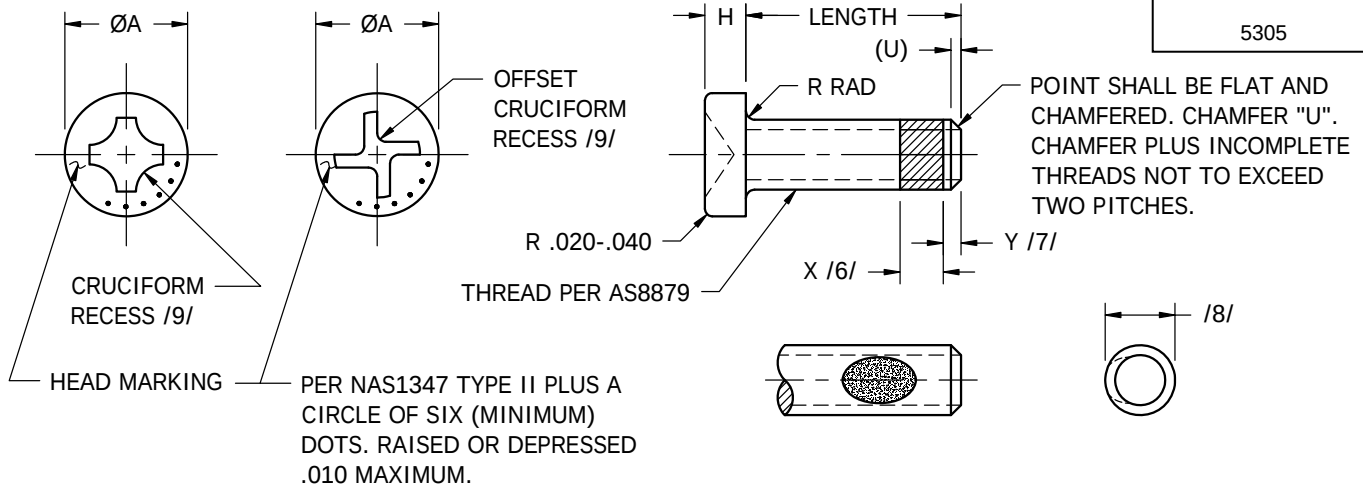


TABLE I – DIMENSIONS

FIRST DASH NO.	THREAD	ØA	H	R RAD	(U)	ULTIMATE TENSILE STRENGTH LBF MIN /10/
02	.0860-56 UNJC-3A	.140 .136	.053 .044	.010 .005	.010	591
04	.1120-40 UNJC-3A	.183 .178	.069 .059	.010 .005	.013	966
06	.1380-32 UNJC-3A	.226 .221	.086 .074	.010 .005	.016	1,450
08	.1640-32 UNJC-3A	.270 .265	.102 .088	.020 .010	.016	2,240
3	.1900-32 UNJF-3A	.313 .306	.118 .103	.020 .010	.016	3,180
4	.2500-28 UNJF-3A	.375 .367	.150 .133	.020 .010	.018	5,820
5	.3125-24 UNJF-3A	.438 .429	.183 .162	.020 .010	.021	9,200
6	.3750-24 UNJF-3A	.563 .552	.215 .191	.025 .015	.021	14,000

MATERIAL:

ALLOY STEEL – 4340 (UNS G43400) PER AMS6484, 4340 (UNS G43406) PER AMS6415 OR AMS6484, 8740 (UNS G87400) PER AMS6322, AMS6325 OR AMS6327.
CRES – A286 (UNS S66286) CONFORMING TO THE CHEMISTRY OF AMS5731, AMS5732, AMS5737 OR AMS5853.
LOCKING ELEMENT – NYLON OR EQUIVALENT.

HEAT TREATMENT:

DEVELOP BASIC MATERIAL PROPERTIES AS FOLLOWS, WITH CONTROLS PER AMS2759:
ALLOY STEEL: 160-180 KSI Ft_u.
CRES: 160-190 KSI Ft_u. PRECIPITATION HARDENING PER AMS5853. /17/

⑤ COMPLETELY REVISED

THIRD ANGLE PROJECTION	CUSTODIAN NATIONAL AEROSPACE STANDARDS COMMITTEE	REVISION 5
PROCUREMENT SPECIFICATION NOTED	TITLE SCREW, SELF-LOCKING, FLAT FILLISTER HEAD, FULL THREAD, PATCH TYPE	CLASSIFICATION PART STANDARD
		NAS1743 SHEET 1 OF 3

FINISH:

ALLOY STEEL – CADMIUM PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2.
CRES – PASSIVATE PER AMS2700, METHOD 1, CLASS 4 OR CADMIUM PLATE PER AMS-QQ-P-416, TYPE II, CLASS 2.

CODE:

SECOND DASH NUMBER INDICATES LENGTH IN .0625 INCREMENTS, ROUNDED OFF TO 3 PLACE DECIMALS. INTERMEDIATE OR LONGER LENGTHS MAY BE SPECIFIED BY THE USE OF A WHOLE DASH NUMBER ONLY.

EXAMPLE OF PART NUMBER:

NAS1743 C 5 R 10 U = SCREW, SELF-LOCKING, CRES, .3125-24 THREAD, CRUCIFORM RECESS, .625 LONG, NOT PLATED

NO PLATING (A286 ONLY); OMIT FOR PLATED PARTS

SECOND DASH NUMBER = LENGTH AS TABULATED

“R” = CRUCIFORM RECESS
“T” = OFFSET CRUCIFORM

FIRST DASH NUMBER = SIZE AS TABULATED

“C” = CRES
“–” = ALLOY STEEL

BASIC PART NUMBER

NOTES:

- (1) DIAMETER OF UNTHREADED PORTION OF SCREWS SHALL NOT BE LESS THAN MINIMUM PITCH DIAMETER NOR MORE THAN MAXIMUM MAJOR DIAMETER OF THREAD.
- (2) FOR SCREWS 2 INCHES LONG OR SHORTER, COMPLETE THREADS SHALL EXTEND TO WITHIN 2 THREADS OF THE BEARING SURFACE OF THE HEAD. SCREWS OF LONGER LENGTH SHALL HAVE A MINIMUM COMPLETE THREAD LENGTH OF 1.750.
- (3) REMOVE ALL BURRS AND SHARP EDGES.
- (4) BEARING SURFACE SQUARENESS: WITHIN .003 FIM OF SHANK DIAMETER.
- (5) FOR CRES, MAGNETIC PERMEABILITY SHALL BE LESS THAN 2.0 (AIR = 1.0) FOR A FIELD STRENGTH H = 200 OERSTEDS USING A MAGNETIC PERMEABILITY INDICATOR PER ASTM A342/A342M, TEST METHOD 3.
- /6/ “X” MINIMUM (5 THREAD PITCHES) = REGION OF MINIMUM ENGAGEMENT WITH FULL INTERNAL THREAD REQUIRED TO MEET MIL-DTL-18240 REQUIREMENTS. LOCKING ELEMENT WITHIN “X” REGION MUST DEVELOP REQUIRED TORQUE WHEN TESTED PER MIL-DTL-18240. LENGTH OF LOCKING ELEMENT MAY BE MORE OR LESS THAN “X” PROVIDING ALL OTHER REQUIREMENTS ARE MET. SIZE .0860-56 REQUIRES ONLY A POSITIVE INDICATION OF TORQUE.
- /7/ FOR EASE IN STARTING, LOCKING ELEMENT SHALL NOT BE EFFECTIVE IN “Y” AREA (3 THREAD PITCHES).

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REVISION
5
NAS1743
SHEET 2



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